

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-333528

(43)Date of publication of application : 17.12.1996

(51)Int.Cl.

C09D 5/44

B05D 1/36

C08G 18/58

C08G 18/70

C08G 59/14

(21)Application number : 07-168235

(71)Applicant : NIPPON PAINT CO LTD

(22)Date of filing : 08.06.1995

(72)Inventor : YOSHIDA TATSUO  
SHIRAKAWA SHINSUKE  
MURAKAMI RYOICHI

## (54) DOUBLE LAYERED MEMBRANE-FORMING CATIONIC ELECTRODEPOSITION COATING COMPOSITION

### (57)Abstract:

**PURPOSE:** To obtain a cationic electrodeposition coating composition capable of separating into two layers so as to form a layer rich in an epoxy-based cationic resin excellent in corrosion resistance to the side of a metal substrate and another layer rich in an acryl-based cationic resin excellent in weather resistance to the surface side.

**CONSTITUTION:** This double layered membrane forming cationic electrodeposition coating composition is obtained by dispersing (a) an amine modified epoxy-based cationic resin, (b) a self cross-linking acryl-based cationic resin having 100-200 hydroxyl value obtained by adding a half blocked diisocyanate to a cationic acrylic resin having a lower solubility parameter by at least 0.5 than that of the amine modified epoxy-based cationic resin, and (c) a blocked polyisocyanate curing agent into an aqueous medium containing a neutralizing agent.